L Number	Hits	Search Text	DB	Time stamp
1	1	("6463479").PN.	USPAT	2004/05/28 10:23
2	67	(determin$6 find$6) near9 (home adj node$5)	USPAT	2004/05/28 11:25
3	0	(determin$6 find$6 match$5) near9 (home adj node$5) near9 (foreign)	USPAT	2004/05/28 11:25
4	0	(determin$6 find$6 match$5) near9 (home adj node$5) with (foreign)	USPAT	2004/05/28 11:26
5	116	(determin$6 find$6 match$5 identif$9) near9 (home adj node$5)	USPAT	2004/05/28 11:27
6	11	((determin$6 find$6 match$5 identif$9) near9 (home adj node$5)) and (roam$5 foreign)	USPAT	2004/05/28 11:34
8	1	broadcast$3 near9 (identif$6 determin$5 match$5 find$5) near3 (home adj (network$5 node$5))	USPAT	2004/05/28 11:36
9	93	(message$5 request$5) near9 (identif$6 determin$5 match$5 find$5) near3 (home adj (network$5 node$5))	USPAT	2004/05/28 11:36
10	1	6728536.pn. and (access adj control adj server)	USPAT	2004/05/28 12:24
11	6	(aaa (authenticat$9 near authoriz$6 near account$5)) near (prox$5 gatewa$5) near (server$5 system$5 device$5)	USPAT	2004/05/28 12:25
-	27	authenticat$6 near account$6 near authoriz$6	USPAT	2004/05/21 17:39
-	20	(authenticat$6 near account$6 near authoriz$6) and aaa	USPAT	2004/05/20 14:27
-	2	(authenticat$6 near account$6 near authoriz$6) and aaa and (service near level$3 near agreement$5)	USPAT	2004/05/27 12:53
-	54	((authenticat$6 near account$6 near authoriz$6) aaa) and ((service near level$3 near agreement$5) sla)	USPAT	2004/05/20 14:38
-	10	(("6418306") or ("6393112") or ("5966431") or ("5852660") or ("6421714") or ("6286052") or ("6266782") or ("5909550") or ("5701120") or ("5642515")).PN.	USPAT	2004/05/20 14:39
-	42	roam$5 and (ip near regist$9)	USPAT	2004/05/21 17:19
-	11	((authenticat$6 near account$6 near authoriz$6) aaa) and (ip near regist$9)	USPAT	2004/05/21 17:38
-	1	((authenticat$6 near account$6 near authoriz$6) aaa radius) with (request$6 regist$9) with (sla (service adj level$5 adj agreement$6))	USPAT	2004/05/21 17:45
-	1	6466964.pn. and (home near network$5)	USPAT	2004/05/21 17:47
-	1	6445922.pn. and regist$9	USPAT	2004/05/24 16:52
-	1	6445922.pn. and (regist$9 with (aaa authenticat$5 account$6))	USPAT	2004/05/24 17:00
-	1	6445922.pn. and ((aaa authenticat$5 account$6))	USPAT	2004/05/24 17:00
-	1	6445922.pn. and (('14' aaa authenticat$5 account$6))	USPAT	2004/05/24 17:00
-	1	6445922.pn. and (regist$9 with (faaa haaa authenticat$5 account$6))	USPAT	2004/05/24 17:02
-	1	6445922.pn. and ((faaa haaa authenticat$5 account$6))	USPAT	2004/05/24 17:01
-	1	6466977.pn. and (roam$5 home foreign)	USPAT	2004/05/24 17:02
-	2085	(sla (service$3 adj level adj agree$6)) (iwf (interworking adj function$5))	USPAT	2004/05/24 17:24
-	2105	(sla (service$3 adj2 level$5 adj2 agree$6)) (iwf (interwork$6 adj2 function$5))	USPAT	2004/05/24 17:24
-	1	(sla (service$3 adj2 level$5 adj2 agree$6)) and (iwf (interwork$6 adj2 function$5))	USPAT	2004/05/24 18:09
-	1482	(sla (service$3 adj2 level$5 adj2 agree$6))	USPAT	2004/05/24 18:09
-	1481	(sla (service$3 adj level$5 adj agree$6))	USPAT	2004/05/24 18:10
-	268	((service$3 adj level$5 adj agree$6))	USPAT	2004/05/25 13:17

–	62	((service$3 adj level$5 adj agree$6)) with (improv$5 bandwidth speed (load adj balanc$5) rout$5)	USPAT	2004/05/24 18:11
–	17	(sla (service$3 adj level$5 adj agree$9)) with (fit$3 assur$5)	USPAT	2004/05/25 17:19
–	97	(sla (service$3 adj level$5 adj agree$9)) with (provid$5 near9 service$5)	USPAT	2004/05/25 14:00
–	2	agreement adj service adj level	USPAT	2004/05/28 11:24
–	1	(aaa (authenticat$6 adj authoriz$6 adj account$6)) adj (proxy broker$5) adj (server$5)	USPAT	2004/05/25 15:02
–	0	(mobile$3 adj (device$5 node$5)) with (roam$5 adj (node$5 device$5))	USPAT	2004/05/25 14:20
–	4	mobile$3 with (roam$5 adj (node$5 device$5))	USPAT	2004/05/25 14:28
–	1	6466977.pn. and (roam$5 mobil$5 cellular$5)	USPAT	2004/05/25 14:31
–	3755	domain$3 near9 network$5	USPAT	2004/05/25 14:31
–	22	domain$3 near9 (home adj network$5)	USPAT	2004/05/25 14:37
–	21	(roam$5 near4 service$5 near4 provider$5) with foreign	USPAT	2004/05/25 14:38
–	24	(roam$5 near service$5 near provider$5)	USPAT	2004/05/25 14:45
–	6	(aaa (authenticat$6 adj authoriz$6 adj account$6)) adj (proxy broker$5)	USPAT	2004/05/25 15:03
–	11	(aaa (authenticat$6 adj authoriz$6 adj account$6)) near4 (proxy broker$5)	USPAT	2004/05/25 15:17
–	1	6728536.pn. and (regist$9)	USPAT	2004/05/25 15:28
–	1	6728536.pn. and (aaa-b '120')	USPAT	2004/05/25 15:44
–	1	6728536.pn. and (respon$6)	USPAT	2004/05/25 16:00
–	1	6445922.pn. and (reject$5 den$6 refus$6 fail$6 fault$6)	USPAT	2004/05/25 16:12
–	37	(home adj (node$3 terminal device$3)) near9 (reject$5 den$6 refus$6 fail$6 fault$6)	USPAT	2004/05/25 16:13
–	1	6728536.pn. and (agree$6 level$5)	USPAT	2004/05/25 17:07
–	26	(sla (service$3 adj level$5 adj agree$9)) with (availability)	USPAT	2004/05/26 12:49
–	1	6728536.pn. and (broker$5 with (network$5 rout$6))	USPAT	2004/05/27 13:54
–	6	((authenticat$6 near account$6 near authoriz$6) aaa) adj (proxy broker$5)	USPAT	2004/05/27 13:42
–	2	("6466977" "6728536").pn. and (key)	USPAT	2004/05/27 13:55
–	2	("6466977" "6728536").pn. and (key$5)	USPAT	2004/05/27 13:55
–	2	("6466977" "6728536").pn. and (certificat$6 key$5)	USPAT	2004/05/27 14:43
–	1578	certificat$5 near8 (key$3 encrypt$6)	USPAT	2004/05/27 13:58
–	649	certificat$5 near8 (key$3 near9 encrypt$6)	USPAT	2004/05/27 13:58
–	0	(alternativ$5 adj3 path$3) near3 authenticat$6	USPAT	2004/05/27 14:11
–	0	(alternativ$5 near4 path$3) near3 authenticat$6	USPAT	2004/05/27 14:11
–	135	(path$3) near3 authenticat$6	USPAT	2004/05/27 14:28
–	9	avp with (attribut$5)	USPAT	2004/05/27 14:40
–	0	6728536.pn. and (ppp l'2'tp tunnel$5)	USPAT	2004/05/27 14:30
–	1	6728536.pn. and (ppp point l'2'tp tunnel$5)	USPAT	2004/05/27 14:30
–	1	6728536.pn. and (ppp point$6 l'2'tp tunnel$5)	USPAT	2004/05/27 14:31
–	2	("6466977" "6728536").pn. and (ppp point$6 l'2'tp tunnel$5)	USPAT	2004/05/27 14:31
–	718	(avp (attribut$5 adj value$3 adj pair$5))	USPAT	2004/05/27 14:41
–	120	((avp (attribut$5 adj value$3 adj pair$5))) and (709/$ 713/$ 714/$ 370/$ 379/$ 455/$).ccls.	USPAT	2004/05/27 14:45
–	1	("6466977" "6728536").pn. and (virtual privat$6 tunnel$6)	USPAT	2004/05/27 14:43
–	108	((avp (attribut$5 adj value$3 adj pair$5))) and (certificat$6 encapsulat$6)	USPAT	2004/05/27 14:46
–	2	("6466977" "6728536").pn. and (password$5 user$5 id attribut$5)	USPAT	2004/05/27 16:18

-	2	("6466977" "6728536").pn. and (radius expir$9 password$5 id$6 attribut$5)	USPAT	2004/05/27 16:37
-	2	("6466977" "6728536").pn. and (radius expir$9 name$3 password$5 id$6 attribut$5)	USPAT	2004/05/27 16:39
-	2	("6466977" "6728536").pn. and ((aaa adj (data information$5)) radius expir$9 name$3 password$5 id$6 attribut$5)	USPAT	2004/05/27 16:39
-	2	("6466977" "6728536").pn. and (aaa radius expir$9 name$3 password$5 id$6 attribut$5)	USPAT	2004/05/27 17:03
-	2	("6466977" "6728536").pn. and (ip)	USPAT	2004/05/27 17:34
-	76	attribut$5 near pair$3 near value$3	USPAT	2004/05/28 12:10
-	23	(attribut$5 near pair$3 near value$3) and 709/$.ccls.	USPAT	2004/05/27 17:14
-	0	(attribut$5 near pair$3 near value$3) with (verif$6 identif$9 secur$6 priva$6)	USPAT	2004/05/27 17:16
-	9	(attribut$5 near pair$3 near value$3) same (verif$6 identif$9 secur$6 priva$6)	USPAT	2004/05/27 17:32
-	146	(fault adj tolerance$5) with (redunden$6 plurality)	USPAT	2004/05/27 17:33
-	1	("6728536").pn. and (function$5)	USPAT	2004/05/28 10:22

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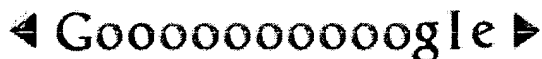
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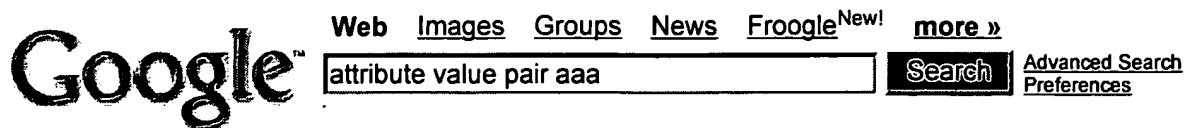
Web   Results **1 - 10** of about **15,900** for **attribute value pair aaa**. (0.38 seconds)

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... Cisco IOS **Attribute-Value Pair** Dictionary. Before selecting TACACS+ AV **pairs** for
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Using RADIUS For WLAN Authentication, Part I
... and series of **Attribute-Value pairs**. Authenticator: The purpose of the Authenticator
is to provide a modest bit of security. The NAS and **AAA** Server use the ...
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... config= Specifies user-specific **AAA** interface configuration ... yes xmit-rate - This AV
pair has been ... 37 Disc-Causes-Ext **Attribute Values Value** Description Unknown ...
www.gazi.edu.tr/tacacs/docs/sctacatb.pdf - Similar pages

List of TACACS+ Attribute-Value Pairs
... route#<n>, Like the route AV **pair**, this specifies a ... for a user (see the addr-pool
attribute), a check is ... If the load goes below the specified **value**, links are ...
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... a long time to finish and would otherwise block the **AAA** server from handling other
requests. Fork- reply plug-in modules pass **attribute-value pairs** back to the ...
www.interlinknetworks.com/images/resource/ SDK_060603_data_sheet.pdf - Similar pages

Configuring LDAP Authentication
... These **attributes** are multivalued **attributes** containing the RADIUS
attribute value pairs to be processed by the Merit **AAA** server. ...
www.juniper.net/techpubs/software/management/sdx/sdx400/ sw-sdx-integration/html/merit-interlink-radius8.html
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Merit AAA Radius server building problem on solaris box
... u ppp terrence@eclectic.its.unimelb.edu.au Merit **AAA** server Version ... UNIVERSITY OF
MICHIGAN ALL RIGHTS RESERVED Password: Received **attribute/value pair**(s): User ...
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IC Online: AAA Protocols
... **Attribute/value pairs**. RADIUS messages carry **AAA** information encoded in type-length-**value**

fields, called **attributes** (or **attribute/value pairs**). **...**
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... Adding Users to the Database. Adding a New **AAA** Client. **...** 13. Exploring TACACS+ **Attribute**
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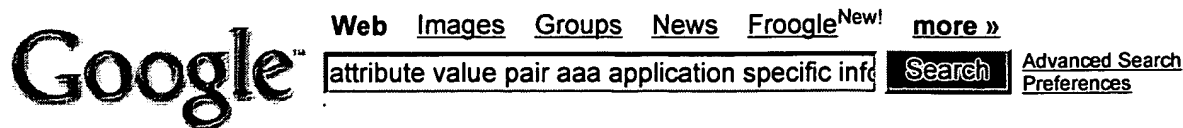
Web Results **1 - 10** of about **10,400** for <u>**attribute** **value** **pair** **aaa** **application** **specific** **information**</u>. (0.74 secon

PKI Integration with **AAA** Server
... no **application** component supports specification of the **application**
label. ... If the **AAA** server is not available, the authorization fails ... New
Attribute-Value Pairs. ...
www.cisco.com/univercd/cc/td/doc/product/software/
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RADIUS Vendor-**Specific Attributes** and RADIUS Disconnect-Cause ...
... **aaa** receive-id or the mmoip **aaa** send-id ... trigger an abort are FAP (Fax **Application**
Process), TIFF ... **information** in the form an **Attribute-Value Pair** (AVPair) string ...
www.cisco.com/
en/US/products/sw/iosswrel/ps1835/products_configuration_guide_chapter09186a00800ca7b4.html
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... Properties – A set of name/**value pairs** © To serve ... Key © Location by Public Key
attributes/info • Named ... Subject © Location by (Subject, Public Key) **pair** ...
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DIAMETER
... to provide an Authentication, Authorization and Accounting (**AAA**) framework for ...
The **application** ID in the header MUST be the same as ... AVP, **Attribute Value Pair**. ...

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D3 ...
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... Key – Owner's public key. Properties – A set of name/**value pairs**. ... Location by
Public Key **attributes**/info. ... Location by (Subject, Public Key) **pair**. ...
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Zvon - RFC 2903 [Generic **AAA** Architecture] - Generic **AAA** ...
... for example, would allow Radius **attribute value pairs** to be encapsulated in
Application Specific Information (ASI) units ... a service provider's **AAA** server and ...
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... facilities: ● Delivery of **attribute value pairs** (AVPs) ● Capabilities ... Basic services
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information for **AAA** purposes. ... format of a diameter **Attribute Value Pair** (AVP),
which ...
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... Such agents are used both for **authentication/authorization**, as well as **accounting**
[RFC2975]. ... two connections are established: one from the **AAA** client (NAS ...
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...Authorization, also called service delivery, is the process **... Accounting** is the process
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2. Generic AAA Architecture

For the long term we envision a generic **AAA** server which is capable of authenticating users, handling authorization requests, and collecting accounting data. For a service provider, such a generic **AAA** server would be interfaced to an **application specific** module which manages the resource for which authorization is required. Generic **AAA** components would also be deployed in other administrative domains performing authorization functions.

2.1. Architectural Components of a Generic AAA Server

2.1.1. Authorization Rule Evaluation

The first step in the authorization process is for the user or an entity operating on the user's behalf to submit a well-formatted request to an **AAA** server. A generic **AAA** server has rules (logic and/or algebraic formulas) to inspect the request and come to an authorization decision. The first problem which arises is that **Application Specific Information** (ASI) has to be separated from the underlying logic for the authorization. Ideally the **AAA** server would have a rule based engine at this point which would know the logic rules and understand some generic **information** in the request, but it would not know anything about **application specific information** except where this **information** can be evaluated to give a boolean or numerical **value**. It should be possible to create rules that refer to data elements that were not considered when the **application** was created. For example, one could request to do a remote virtual control room experiment from home using a dialin provider. The request would only be successful if the dialin access server allows it and if there is bandwidth available (bandwidth broker) and if the experimenter has the money to pay for it (E-Commerce). Possibly the

people who specified the bandwidth broker protocol did not think of
combining quality of service with a network service authorization in
a single **AAA** request, but this generic model would allow it.

```
+------+     +-------+      +-------+      +-------+      +-------+
|      | auth |      | auth |      | auth |      | auth |      |      |
|      |<---->|  AAA  |<---->|  AAA  |<---->|  AAA  |<---->|  AAA  |      |
|      |      |       |      |       |      |       |      |       |      |
|      |      +-------+      +-------+      +-------+      +-------+
| User |         |              |              |              |
|      |         |           +-------+      +-------+      +-------+
|      |         |           |  BB   |      |  BB   |      |Budget |
|      |         |           +-------+      +-------+      +-------+
|      |         |              |              |
|      |      +-------+         |              |
|      |      |dial in|      +-------+      +-------+
|      |<====>|service|<====>|network|<====>|network|<===> Experiment
+------+      +-------+      +-------+      +-------+
```
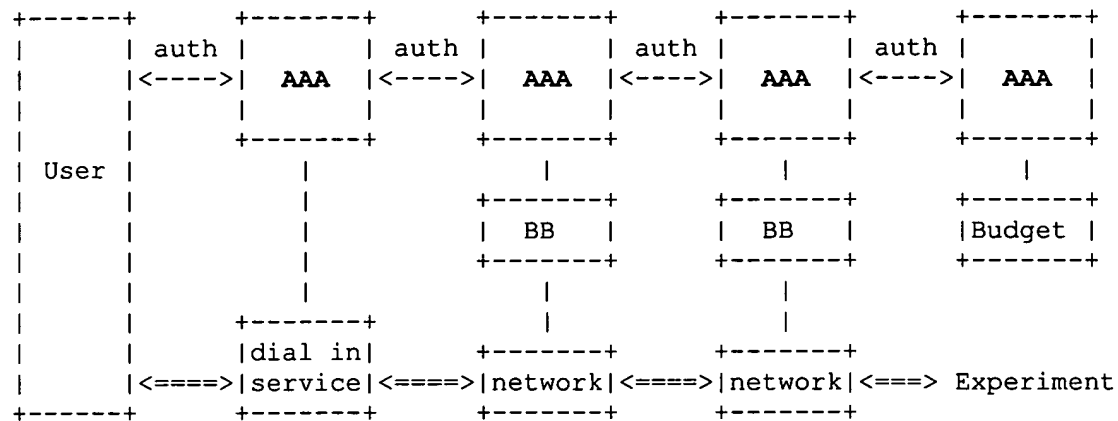
              user <-> dialin <-> backbone with BB <-> <remote experiment>

       Fig. 1 -- Example of a Multi Domain Multi Type of Server Request

2.1.2. Application Specific Module (ASM)

Ultimately an **AAA** server needs to interact with an **application
specific** module (ASM). In a service provider, the ASM would manage
resources and configure the service equipment to provide the
authorized service. It might also involve itself in the
authorization decision because it has the **application specific**
knowledge required. A user home organization (UHO) may require ASMs
as well, to perform **application specific** user authorization
functions. For example, a UHO ASM might be required to access
certain **application specific** databases or interpret **application
specific** service level specifications.

Whatever the role of an administration relative to an authorization
decision, the capabilities of the generic **AAA** server and the
interface between it and the ASMs remains the same. This interface
may be an **Application** Program Interface (API) or could even be a
protocol based interface. In this model, however, the **application
specific** module is regarded as as separate architectural component
from the generic **AAA** server. As such, it must be addressable and
must therefore be part of a global naming space.

2.1.3. Authorization Event Log

For auditing purposes, the generic server must have some form of
database to store time-stamped events which occur in the **AAA** server.
This database can be used to account for authorizations which were
given, but it can also be used in rules. One can imagine rules in
which an authorization is only given if some other event was logged
in the past. With the aid of certificates, this database could
support non-repudiation.

2.1.4. Policy Repository

A database containing the available services and resources about which authorization decisions can be made and the policy rules to make them is also needed. Here too, the naming space for the services and resources is important since they must be addressable from other **AAA** servers to be able to build complex authorization requests.

2.1.5. Request Forwarding

Due to the multiple administrative domain (multi-kingdom) nature of the **AAA** problem, a mechanism to forward messages between **AAA** servers is needed. The protocol by which two **AAA** servers communicate should be a peer-to-peer protocol.

2.2. Generic AAA Server Model

With the implementation of the above mentioned components, the **AAA** server would be able to handle **AAA** requests. It would inspect the contents of the request, determine what authorization is requested, retrieve the policy rules from the repository, perform various local functions, and then choose one of the following options to further process each of the components of the request:

a) Let the component be evaluated by an attached ASM.

b) Query the authorization event log or the policy repository for the answer.

c) Forward the component(s) to another **AAA** server for evaluation.

In the following sections we present the generic model.

2.2.1. Generic AAA Server Interactions

Figure 2 illustrates a generic **AAA** Server with connections to the various architectural components described above. In this model, the user or another **AAA** server contacts the **AAA** server to get authorization, and the **AAA** server interacts with the service. The request is sent to the **AAA** server using the future **AAA** protocol. The server interacts with the service via a second protocol which we have labeled as type "2" in the figure. We say no more of the type 2 protocol than that it must support some global naming space for the **application specific** items. The same holds for the type 3 communication used to access the repository.

```
                       +------------------+
                       |                  |
request   <-----1----->|Generic AAA Server|<---1---> AAA server
                       |Rule based engine |
                       |                  |\
                       +------------------+ 3 +------------+
                                ^           \| Policy and |
                                |            | event      |
                                2            | repository |
                                |            +------------+
                                v
                       +------------------+
```

```
                        |   Application    |
                        |    Specific      |
                        |     Module       |
                        +------------------+
```
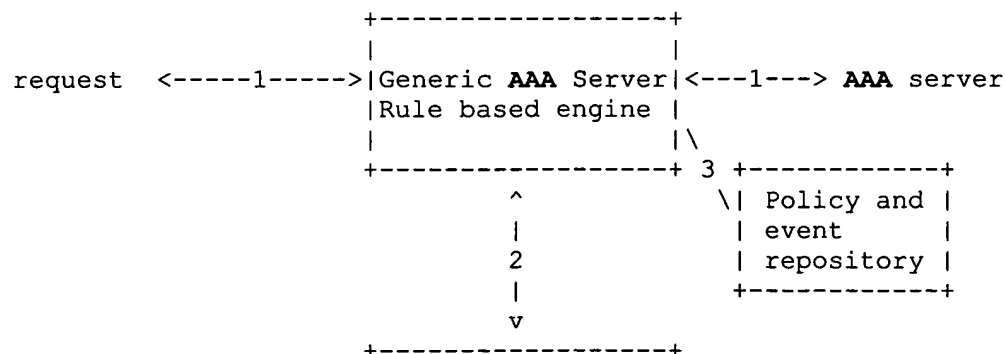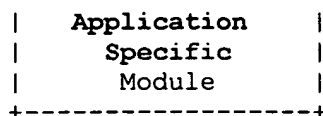
The numbers in the links denote types of communication.

Fig. 2 -- Generic **AAA** Server Interactions

2.2.2. Compatibility with Legacy Protocols

Because of the widespread deployment of equipment that implements
legacy **AAA** protocols and the desire to realize the functionality of
the new **AAA** protocol while protecting the investment in existing
infrastructure, it may be useful to implement a **AAA** gateway function
that can encapsulate legacy protocol data units within the messages
of the new protocol. Use of this technique, for example, would allow
Radius **attribute value** pairs to be encapsulated in **Application
Specific Information** (ASI) units of the new protocol in such a way
that the ASI units can be digitally signed and encrypted for end-to-
end protection between a service provider's **AAA** server and a home **AAA**
server communicating via a marginally trusted proxy **AAA** server. The
service provider's NAS would communicate via Radius to the service
provider's **AAA** server, but the **AAA** servers would communicate among
themselves via the new **AAA** protocol. In this case, the **AAA** gateway
would be a software module residing in the service provider's **AAA**
server. Alternatively the **AAA** gateway could be implemented as a
standalone process.

Figure 3 illustrates an **AAA** gateway. Communication type 4 is the
legacy protocol. Communication type 1 is the future standard **AAA**
protocol. And communication type 2 is for **application specific**
communication to **Application Specific** Modules (ASMs) or Service
Equipment.

```
                   +-------+
                   |  AAA  |<---1---> to AAA server as in fig. 2
request <---4--->|GateWay|
                   |       |<---2---> optionally to ASM/service
                   +-------+
```
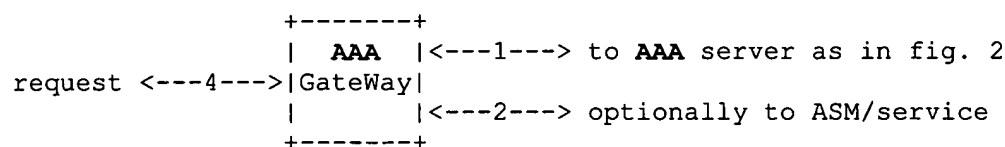
The numbers in the links denote types of communication.

Fig. 3 -- **AAA** Gateway for Legacy **AAA** Protocols

2.2.3. Interaction between the ASM and the Service

In a service provider, the **Application Specific** Module (ASM) and the
software providing the service itself may be tightly bound into a
single "Service **Application**". In this case, the interface between
them is just a software interface. But the service itself may be
provided by equipment external to the ASM, for example, a router in
the bandwidth broker **application**. In this case, the ASM communicates
with the service via some protocol. These two possibilities are
illustrated in figure 4. In both cases, we have labeled the
communication between the ASM and the service as communicarion type
5, which of course, is service **specific.**

```
             |                        |
+---------------|----+               |
| Service     2 |    |               2
| Application   |    |               |
| +-------------+ |   |       +-------------+
| | Application | |   |       | Application |
| | Specific    | |   |       | Specific    |
| | Module      | |   |       | Module      |
| +-------------+ |   |       +-------------+
|        |        |   |              |
|        5        |   |              5
|        |        |   |              |
| +-------------+ |   |       +-------------+
| |  Service    | |   |       |  Service    |
| |             | |   |       |  Equipment  |
| +-------------+ |   |       +-------------+
+-----------------+   |
```

Fig. 4 -- ASM to Service Interaction (two views)

2.2.4. Multi-domain Architecture

The generic **AAA** server modules can use communication type 1 to
contact each other to evaluate parts of requests. Figure 5
illustrates a network of generic **AAA** servers in different
administrative domains communicating via communication type 1.

```
                                            +-----+
                                o---------| AAA |---->...
                               /          |     |
                              /           +-----+\
                             /               |     \+----+
                            /             +-----+  | RP |
                           /              | ASM |  +----+
                          /               |     |
+---------+    +-----+    /               +-----+
| Client  |------| AAA |-------o
+---------+    |     |      \
              +-----+       \
                 |  +----+   \      +-----+
              +-----+ | RP |   o-----| AAA |---->...
              | ASM | +----+         |     |
              |     |                +-----+\
              +-----+                   |     \+----+
                                     +-----+  | RP |
                                     | ASM |  +----+
                                     |     |
                                     +-----+
```

The **AAA** servers use only communication type 1 to communicate.
ASM = **Application Specific** Module
RP = Repository

Fig. 5 -- Multi-domain Multi-type of Service Architecture

2.3. Model Observations

Some key points of the generic architecture are:

1) The same generic **AAA** server can function in all three authorization models: agent, pull, and push [**2**].

2) The rule based engine knows how to evaluate logical formulas and how to parse **AAA** requests.

3) The Generic **AAA** server has no knowledge whatsoever about the **application specific** services so the **application specific information** it forwards is opaque to it.

4) Communication types 1, 2, and 3 each present their own naming space problems. Solving these problems is fundamental to forwarding **AAA** messages, locating **application specific** entities, and locating applicable rules in the rule repositories.

5) A standard **AAA** protocol for use in communication type 1 should be a peer-to-peer protocol without imposing client and server roles on the communicating entities.

6) A standard **AAA** protocol should allow **information** units for multiple different services belonging to multiple different applications in multiple different administrative domains to be combined in a single **AAA** protocol message.

2.4. Suggestions for Future Work

It is hoped that by using this generic model it will be feasible to design a **AAA** protocol that is "future proof", in a sense, because much of what we do not think about now can be encoded as **application specific information** and referenced by policy rules stored in a policy repository. From this model, some generic requirements arise that will require some further study. For example, suppose a new user is told that somewhere on a **specific AAA** server a certain authorization can be obtained. The user will need a **AAA** protocol that can:

1) send a query to find out which authorizations can be obtained from a **specific** server,

2) provide a mechanism for determining what components must be put in an **AAA** request for a **specific** authorization, and

3) formulate and transmit the authorization request.

Some areas where further work is particularly needed are in identifying and designing the generic components of a **AAA** protocol and in determining the basis upon which component forwarding and policy retrieval decisions are made.

In addition to these areas, there is a need to explore the management of rules in a multi-domain **AAA** environment because the development and future deployment of a generic multi-domain **AAA** infrastructure is largely dependent on its manageability. Multi-domain **AAA** environments housing many rules distributed over several **AAA** servers quickly become unmanageable if there is not some form of automated rule creation and housekeeping. Organizations that allow their services to be governed by rules, based on some form of commercial contract, require the contract to be implemented with the least possible effort. This can, for example, be achieved in a scalable

fashion if the individual user or user organization requesting a
service is able to establish the service itself. This kind of
interaction requires policy rule establishment between AAA servers
belonging to multiple autonomous administrative domains.

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